Claims

[c1]   What is claimed is:

1. A display system embedded in an on-screen display (OSD) of a video player comprising:

an access module for providing a medium signal, the medium signal including a video signal and a subtitle signal, wherein the video signal represents a video frame on a display;

an OSD module that can receive an input data to generate a corresponding information video signal, the information video signal representing an information frame on the display, the input data being generated by a status signal received from a control module, the control module controlling the operation of the player and generating a corresponding status signal based on the operation of the player;

a coding module for mixing and coding the video signal and the information video signal into a display signal, the display signal representing a full frame on the display as the video frame overlapping the information frame; and

a parsing module for generating a text signal according to the subtitle signal and transmitting the text signal to

the OSD module to make the text signal an input signal of the OSD module.

[c2]   2. The display system of claim 1 wherein the display signal includes at least a visible data and at least an invisible data, the visible data being displayed on the display for viewers, the invisible data not being displayed on the display, and the coding module mixes and codes the video signal and the information signal into the visible data so that the display signal represents the full frame on the display as the video frame overlaps the information frame.

[c3]   3. The display system of claim 2 wherein the subtitle signal includes a control signal and a caption signal, the control signal controlling the text signal to be coded in the format of invisible data, and the parsing module parses the caption signal within the subtitle signal to generate a corresponding text signal.

[c4]   4. The display system of claim 1 embedded into an optical player, and the access module provides the medium signal based on the data of an optical disk.